G/MOWG findings
May 5/6, 2015 meeting

Presented to Heliophysics Subcommittee
NASA HQ
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G/MOWG Membership

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- Michael Stevens
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The G/MOWG met at NASA HQ May 5/6, 2015.

Previous findings (Oct 2014 GMOWG)

- **Opportunities for Joint Missions to Address the Interfaces Between Traditional Disciplines**
- **MMS Science Funding Opportunities**
- **SR and GI proposed merger**
- **Cubesat funding**
- **Phase E science funding augmentation for MMS**
- **HQ staffing**
- **Include secondary free flyers as MoOs in next SMEX call**
- **HQ's commitment to research**

Current findings (May 2015 GMOWG)

- **Technology Development**
- **Strategic Planning for LWS and STP missions**
- **Increased Explorer flexibility**
- **GI funding for MMS**
- **Framework for sounding rocket mobile campaigns**

Technology Development

Finding synopsis:

To systematically develop technology, it may be advantageous to consider:

- Funding suitable Explorer proposals rated Category 3 and announcing this possibility well before AOs appear.
- Asking SDTs and other advisory groups to identify technology development "roadmaps" for high priority science targets. The STP and LWS program lines could invest funds to develop these before Phase A
- Increasing the emphasis on developing long-term technology needs, in anticipation of the next Decadal Survey
- Finding rides for IDP and similar concepts for access to space (ISS, sounding rocket, SERB, etc.)

Strategic Planning for LWS and STP missions

Finding synopsis:

It may be advantageous to consider:

- Starting SDTs now for IMAP, DYNAMIC, MEDICI, GDC
- Establishing a standard SDT for GDC and multiple smaller SDTs for the PI-led missions.
- Completing high priority DS recommendations (current program, DRIVE, Explorer) before starting these missions

Increased Explorer flexibility

Finding synopsis:

It may be advantageous to consider:

- ISS investigations up to full SMEX cost cap
- Cubesats at full the $65M MoO cost cap including the ride
- Class D cubesats with NASA-provided ride at $50-65M
- SMEX capability of providing own ride to orbit, with expanded cost cap
- Permitting 12U Cubesats
- Releasing a non-binding “notice of intent” to give the community maximum time to prepare excellent concepts

GI funding for MMS

Finding synopsis:

It may be advantageous to consider:

- Open GI opportunity (with no MMS) plus a dedicated call for MMS GI proposals in the 2016 ROSES
- A dedicated MMS call later in the year (NET July 2016) to allow the community time to look at data following anticipated March 2016 public release
- A broadened scope for MMS GI, not limited to official MMS goals
- Setting aside GI program funding for future missions, even missions currently in formulation

Framework for sounding rocket mobile campaigns

Finding synopsis:

It may be advantageous to consider:

- Implementing a proposal framework and schedule that would allow mobile campaigns to become a regular part of the HTIDES / LCAS program.